STIP Project Nos: I-5874, I-5875, and I-5008

Improvements to I-40 Interchanges
Exit 100: Jamestown Road (S.R. 1142)
Exit 107: Drexel Road (S.R. 1712)
Exit 111: Carolina Street SE (S.R. 1734)

Public Meeting November 16, 2017

Morganton, Burke County

NCDOT Wants to Hear from You

Public involvement is an important part of the project development process. The North Carolina Department of Transportation (NCDOT) encourages citizen involvement on transportation projects, and will consider your suggestions and address your concerns. Today's meeting is another important step in NCDOT's efforts to keep you involved. Your input is valued and your attendance greatly appreciated.

NCDOT is presenting proposed improvement alternatives for the following State Transportation Improvement Program (STIP) projects:

- **STIP Project I-5874** at Exit 100 (S.R. 1142/Jamestown Road), information is presented in page 2;
- **STIP Project I-5875** at Exit 107 (S.R. 1712/Drexel Road), information is presented in page 5; and
- **STIP Project I-5008** at Exit 111 (S.R. 1734/Carolina Street SE), information is presented in page 9.

Planning, environmental studies, and design are underway. Bicycle and pedestrian amenities will be addressed in accordance with NCDOT policies, and additional amenities may be included at the request of the local governments per a municipal agreement.

Connecting people, products, and places safely and efficiently with customer focus, accountability, and environmental sensitivity to enhance the economy and vitality of North Carolina

STIP Project I-5874

Exit 100:
Jamestown Road
(S.R. 1142)

This interchange is located south of Morganton. The existing diamond interchange includes a bridge carrying Jamestown Road over I-40. Two alternatives are presented.

Alternate 1, **Roundabout Option**, would change the existing interchange to a diamond with roundabouts at ramp termini at Jamestown Road. A new bridge will be constructed over I-40 to the west of the existing structure.

Alternate 2, **Partial Cloverleaf Option**, would change the interchange to a partial cloverleaf with a ramp/loop combination. A new bridge will be constructed over I-40 to the east of the existing structure.

STIP Project I-5874 Impacts

	Alternate 1 Roundabout	Alternate 2 Partial Cloverleaf
Residential Property Takes	0	0
Commercial Property Takes	0	0
Linear Feet of Streams	0	0
Acres of Wetlands	0	0

STIP Project I-5874 Costs

	Alternate 1 Roundabout	Alternate 2 Partial Cloverleaf
Right-of-Way & Utilities	$02.0 M	$04.1 M
Construction	$13.3 M	$14.6 M
TOTAL	**$15.3 M**	**$18.7 M**

STIP Project I-5874 Schedule*

Preferred Alternative Selected – December 2017

Environmental Studies Completed – January 2018

Environmental Document Approved – February 2018

Right-of-Way – June 2018

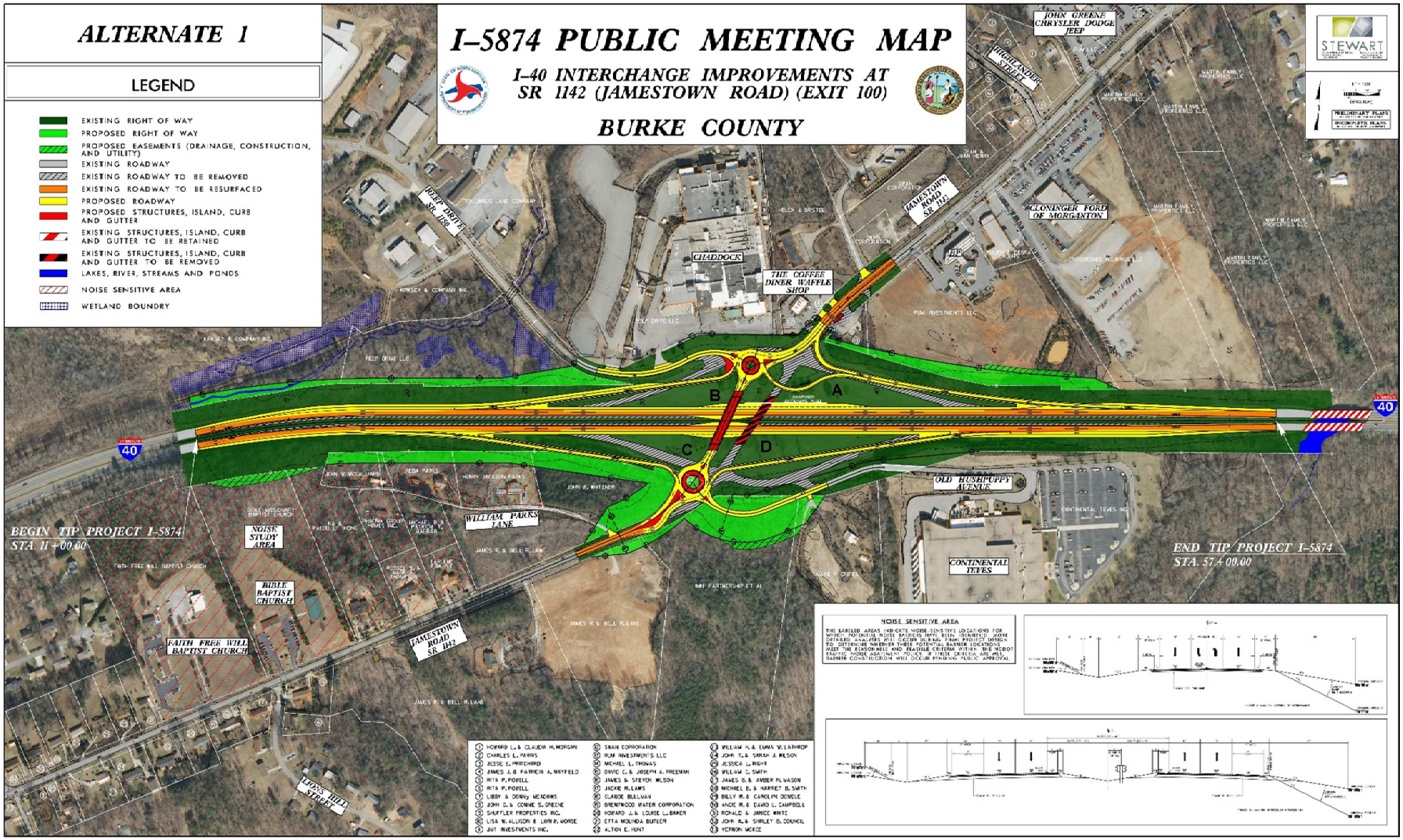
Final Plans Completed – March 2020

Project LET – June 2020

*Subject to change

Need and Purpose for these Projects

These projects are needed to address outdated interchange designs. The purpose is to reconfigure interchanges to meet current NCDOT design standards, improve traffic operations and safety.


ALTERNATE 1
LEGEND
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
PROPOSED EASEMENTS (DRAINAGE, CONSTRUCTION, AND UTILITY)
EXISTING ROADWAY
EXISTING ROADWAY TO BE REMOVED
EXISTING ROADWAY TO BE RESURFACED
PROPOSED ROADWAY
PROPOSED STRUCTURES, ISLAND, CURB AND GUTTER
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE RETAINED
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
LAKES, RIVER, STREAMS AND PONDS
NOISE SENSITIVE AREA
WETLAND BOUNDRY
I-5874 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1142 (JAMESTOWN ROAD) (EXIT 100)
BURKE COUNTY
JOHN GREENE CHRYSLER DODGE JEEP
HIGHLANDER STREET
JAMESTOWN ROAD SR 1142
REEP DRIVE SR 1600
CLONINGER FORD OF MORGANTON
CHADDOCK
THE COFFEE DINER WAFFLE SHOP
OLD HUSHPUPPY AVENUE
CONTINENTAL TEVES
WILLIAM PARKS LANE
NOISE STUDY AREA
BIBLE BAPTIST CHURCH
FAITH FREE WILL BAPTIST CHURCH
LYONS HILL STREET
BEGIN TIP PROJECT I-5874
STA. 11+00.00
END TIP PROJECT I-5874
STA. 57+00.00
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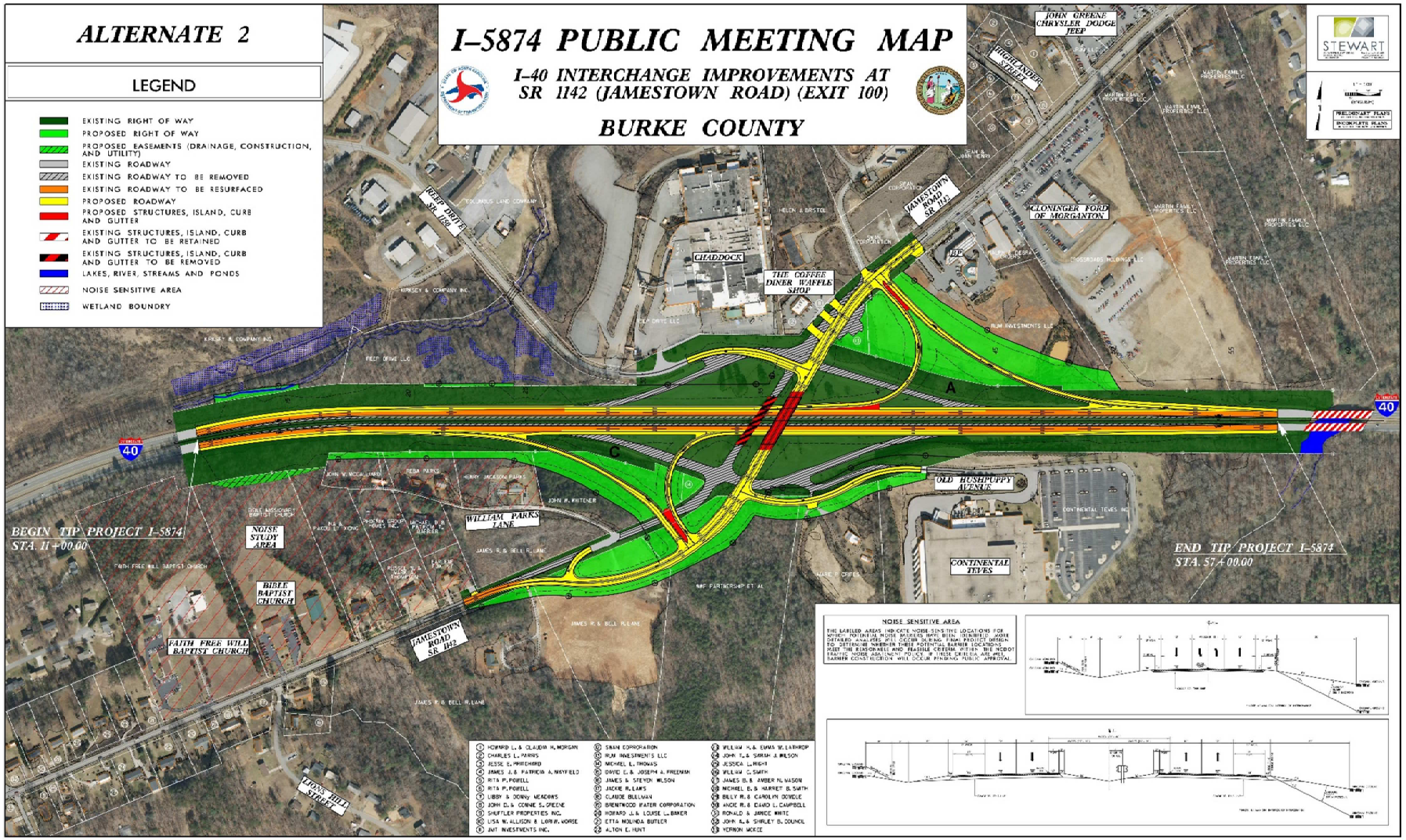
NOISE SENSITIVE AREA


ALTERNATE 2
LEGEND
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
PROPOSED EASEMENTS (DRAINAGE, CONSTRUCTION, AND UTILITY)
EXISTING ROADWAY
EXISTING ROADWAY TO BE REMOVED
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PROPOSED STRUCTURES, ISLAND, CURB AND GUTTER
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE RETAINED
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
LAKES, RIVER, STREAMS AND PONDS
NOISE SENSITIVE AREA
WETLAND BOUNDRY
I-5874 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1142 (JAMESTOWN ROAD) (EXIT 100)
BURKE COUNTY
JOHN GREENE CHRYSLER DODGE JEEP
HIGHLANDER STREET
REEP DRIVE SR 1139
JAMESTOWN ROAD SR 1142
CLONINGER FORD OF MORGANTON
CHADDOCK
THE COFFEE DINER WAFFLE SHOP
OLD HUSHPUPPY AVENUE
CONTINENTAL TIVES
WILLIAM PARKS LANE
NOISE STUDY AREA
BIBLE BAPTIST CHURCH
FAITH FREE WILL BAPTIST CHURCH
LIONS HILL STREET
BEGIN TIP PROJECT I-5874
STA. 11+00.00
END TIP PROJECT I-5874
STA. 57+00.00
NOISE SENSITIVE AREA
STEWART
PRELIMINARY PLANS
INCOMPLETE PLANS

STIP Project I-5875 Schedule*

Preferred Alternative Selected – December 2017

Environmental Studies Completed – February 2018

Environmental Document Approved – March 2018

Right-of-Way – August 2018

Final Plans Completed – May 2020

Project LET – August 2020

*Subject to change

STIP Project I-5875

Exit 107:

Drexel Road (S.R. 1712)

This interchange is located southeast of Morganton. The existing partial cloverleaf interchange includes a bridge carrying Drexel Road over I-40. Three alternatives are presented.

Alternate 1, **Partial Cloverleaf Option**, would change the existing interchange to a partial cloverleaf with a ramp/loop combination. A new bridge will be constructed over I-40 to the east of the existing structure.

Alternate 2, **Diamond Option**, would change the interchange to a diamond. A new bridge will be constructed over I-40 to the east of the existing structure.

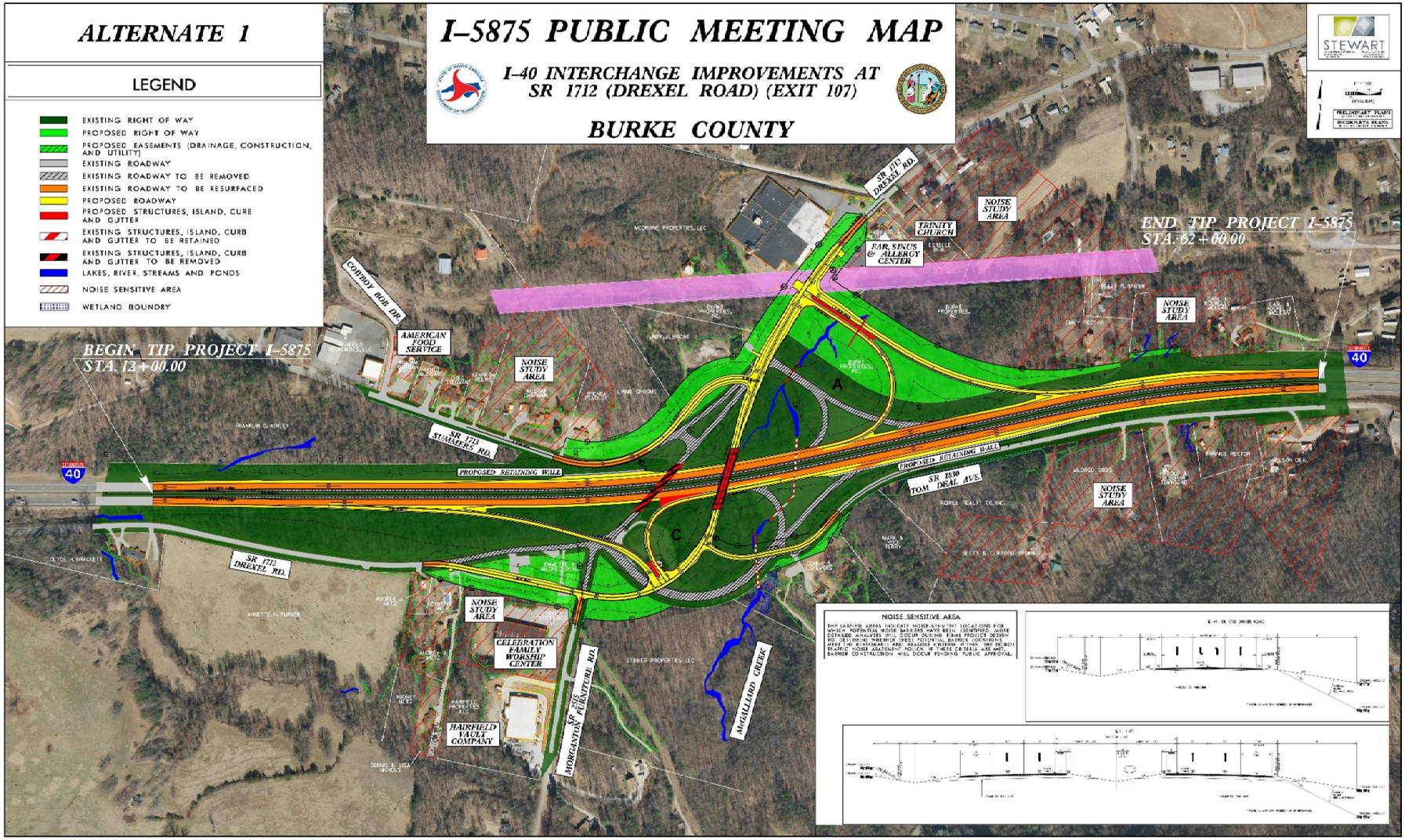
Alternate 3, **Roundabout Option**, would change the interchange to a diamond with a roundabout terminus at the south end. A new bridge will be constructed over I-40 to the east of the existing structure.

STIP Project I-5875 Impacts

	Alternate 1 Partial Cloverleaf	Alternate 2 Diamond	Alternate 3 Roundabout
Residential Property Takes	5	6	2
Commercial Property Takes	0	0	0
Linear Feet of Streams	1411	1135	968
Acres of Wetlands	0.27	0.32	0.26

STIP Project I-5875 Costs

	Alternate 1 Partial Cloverleaf	Alternate 2 Diamond	Alternate 3 Roundabout
Right-of-Way & Utilities*	$05.3 M	$05.1 M	$03.6 M
Construction	$21.7 M	$22.5 M	$22.2 M
TOTAL	**$27.0 M**	**$27.6 M**	**$25.8 M**


ALTERNATE 1
LEGEND
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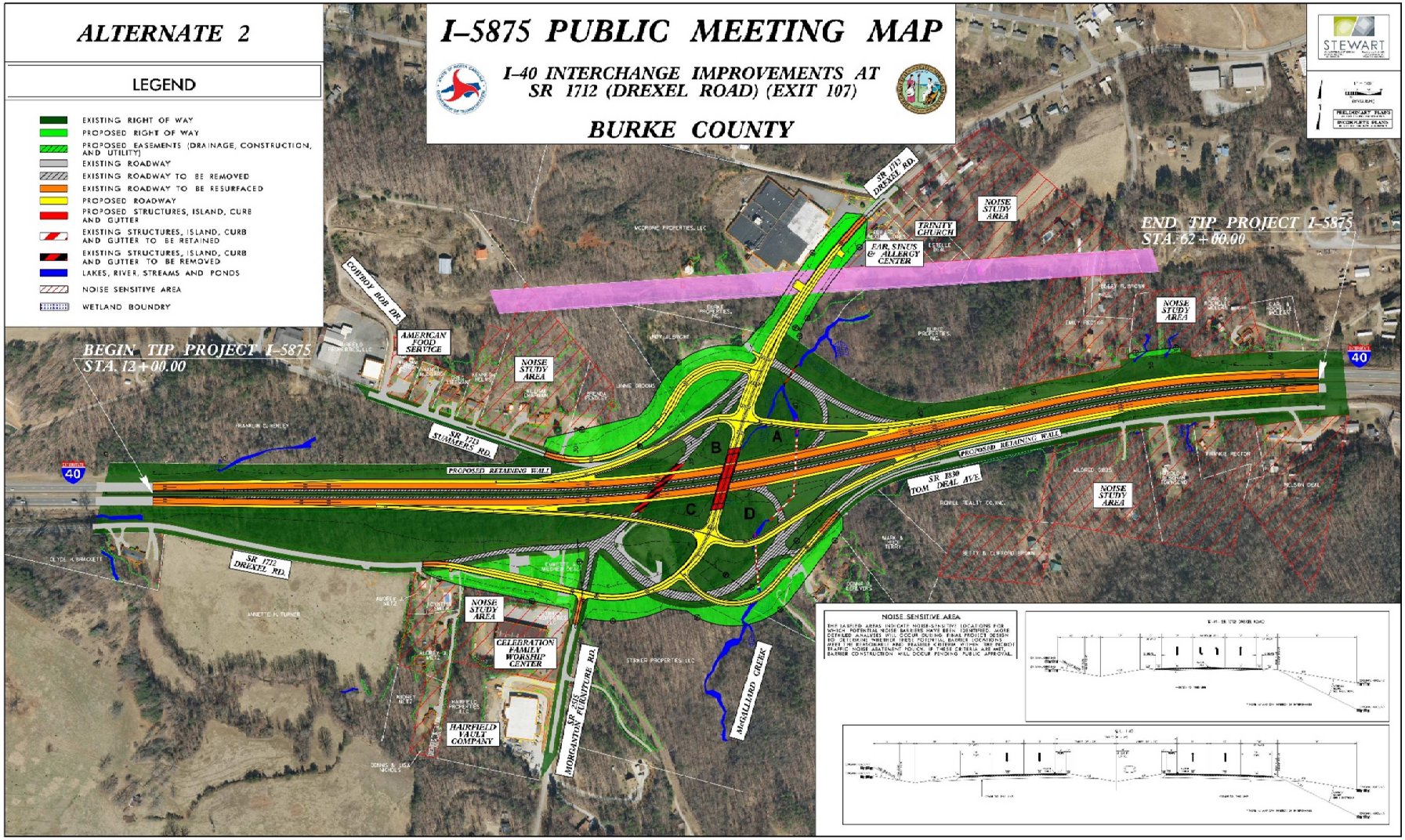
PROPOSED RIGHT OF WAY
PROPOSED EASEMENTS (DRAINAGE, CONSTRUCTION, AND UTILITY)
EXISTING ROADWAY
EXISTING ROADWAY TO BE REMOVED
EXISTING ROADWAY TO BE RESURFACED
PROPOSED ROADWAY
PROPOSED STRUCTURES, ISLAND, CURB AND GUTTER
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE RETAINED
EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
LAKES, RIVER, STREAMS AND PONDS
NOISE SENSITIVE AREA
WETLAND BOUNDRY
I-5875 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1712 (DREXEL ROAD) (EXIT 107)
BURKE COUNTY
BEGIN TIP PROJECT I-5875 STA. 12+00.00
END TIP PROJECT I-5875 STA. 62+00.00
SR 1712 DREXEL RD.
SR 1713 SUMMERS RD.
SR 1830 TOM DEAL AVE.
SR 1715 MONGASTON FURNITURE RD.
COWBOY BOB DR.
TRINITY CHURCH
EAR, SINUS & ALLERGY CENTER
AMERICAN FOOD SERVICE
CELEBRATION FAMILY WORSHIP CENTER
HAIRFIELD VAULT COMPANY
NOISE STUDY AREA
PROPOSED RETAINING WALL
MCGALLIARD CREEK
A
C
NOISE SENSITIVE AREA


ALTERNATE 2
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PROPOSED EASEMENTS (DRAINAGE, CONSTRUCTION, AND UTILITY)
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EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
LAKES, RIVER, STREAMS AND PONDS
NOISE SENSITIVE AREA
WETLAND BOUNDRY
I-5875 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1712 (DREXEL ROAD) (EXIT 107)
BURKE COUNTY
BEGIN TIP PROJECT I-5875 STA. 12+00.00
END TIP PROJECT I-5875 STA. 62+00.00
SR 1712 DREXEL RD.
SR 1713 SUMMERHILL RD.
SR 1830 TOM DEAL AVE.
SR 1711 DREXEL RD.
SR 1716 MONCASTON FURNITURE RD.
COWBOY BOB DR.
PROPOSED RETAINING WALL
NOISE STUDY AREA
AMERICAN FOOD SERVICE
TRINITY CHURCH
EAR, SINUS & ALLERGY CENTER
CELEBRATION FAMILY WORSHIP CENTER
HAIRFIELD VAULT COMPANY
MCGALLIARD CREEK
NOISE SENSITIVE AREA
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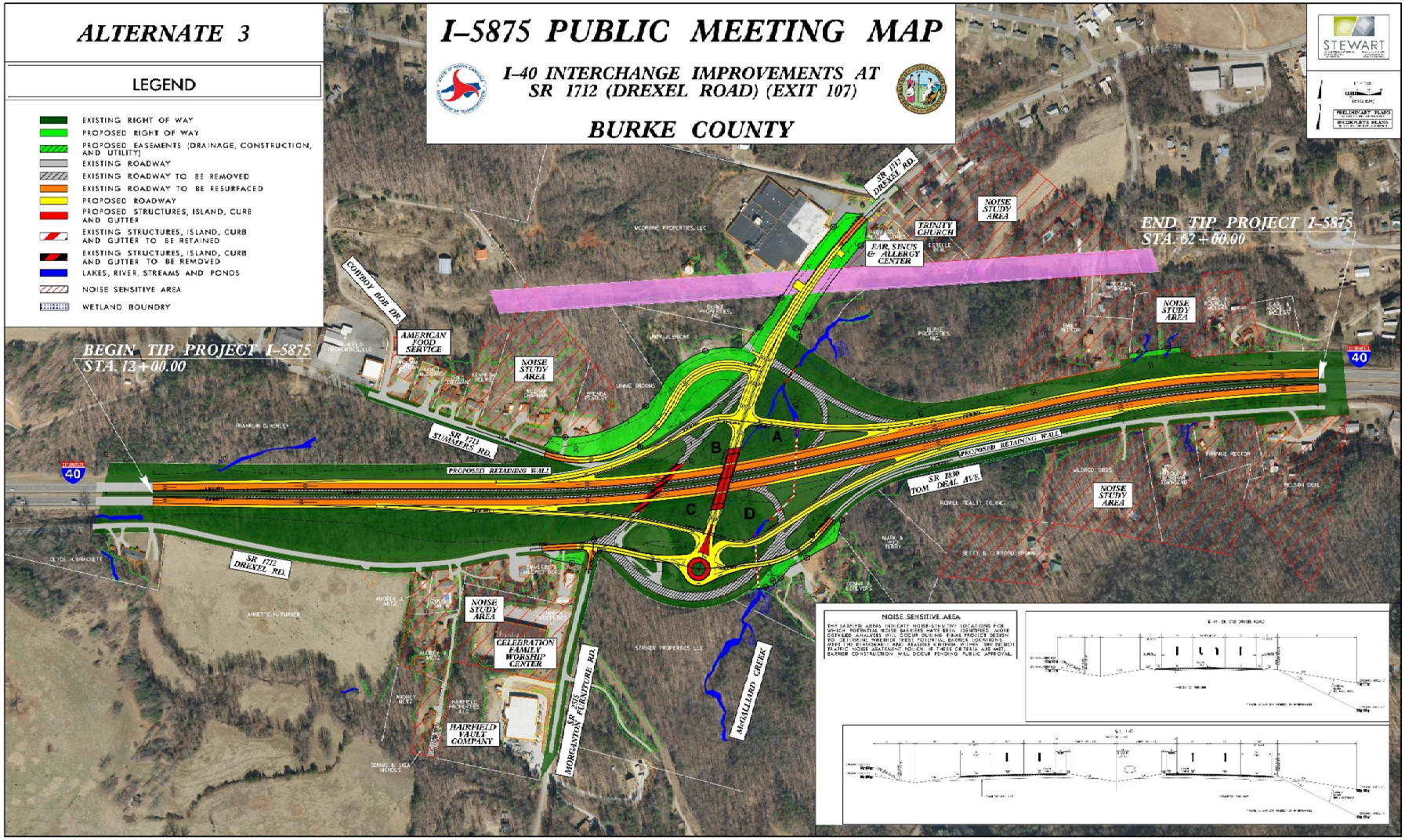
ALTERNATE 3
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I-5875 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1712 (DREXEL ROAD) (EXIT 107)
BURKE COUNTY
BEGIN TIP PROJECT I-5875
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SR 1713 SUMMERHILL RD.
SR 1830 TOM DEAL AVE.
SR 1712 DREXEL RD.
SR 1712 MONCASTON FURNITURE RD.
COWBOY BOB DR.
PROPOSED RETAINING WALL
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TRINITY CHURCH
EAR, SINUS & ALLERGY CENTER
AMERICAN FOOD SERVICE
CELEBRATION FAMILY WORSHIP CENTER
HAIRFIELD VAULT COMPANY
MCGALLIARD CREEK
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NOISE SENSITIVE AREA
STEWART

STIP Project I-5008

Exit 111:

Carolina Street SE

(S.R. 1734)

This interchange is located near the Town of Valdese. The existing interchange includes a bridge carrying Carolina Street SE over I-40. Three alternatives are presented.

Alternate 1, **Roundabout Option with Carolina Street SE/Mourglea Avenue Roundabout**, would change the interchange to a diamond with roundabouts at the ramp termini. A new bridge will be constructed over I-40 to the west of the existing structure.

Alternate 2, **Roundabout Option**, would change the interchange to a diamond with roundabouts at the ramp termini. A new bridge will be constructed over I-40 to the west of the existing structure.

Alternate 3, **Partial Cloverleaf Option**, would change the interchange to a partial cloverleaf with a ramp/loop combination in the northeast quadrant and a ramp/loop combination in the southwest quadrant. A new bridge will be constructed over I-40 to the west of the existing structure.

STIP Project I-5008 Impacts

	Alternate 1 Roundabout #1	Alternate 2 Roundabout #2	Alternate 3 Partial Cloverleaf
Residential Property Takes	5	5	12
Commercial Property Takes	0	0	0
Linear Feet of Streams	413	413	1911
Acres of Wetlands	0.27	0.32	0.26

STIP Project I-5008 Schedule*

Preferred Alternative Selected – December 2017

Environmental Studies Completed – March 2018

Environmental Document Approved – April 2017

Right-of-Way – October 2018

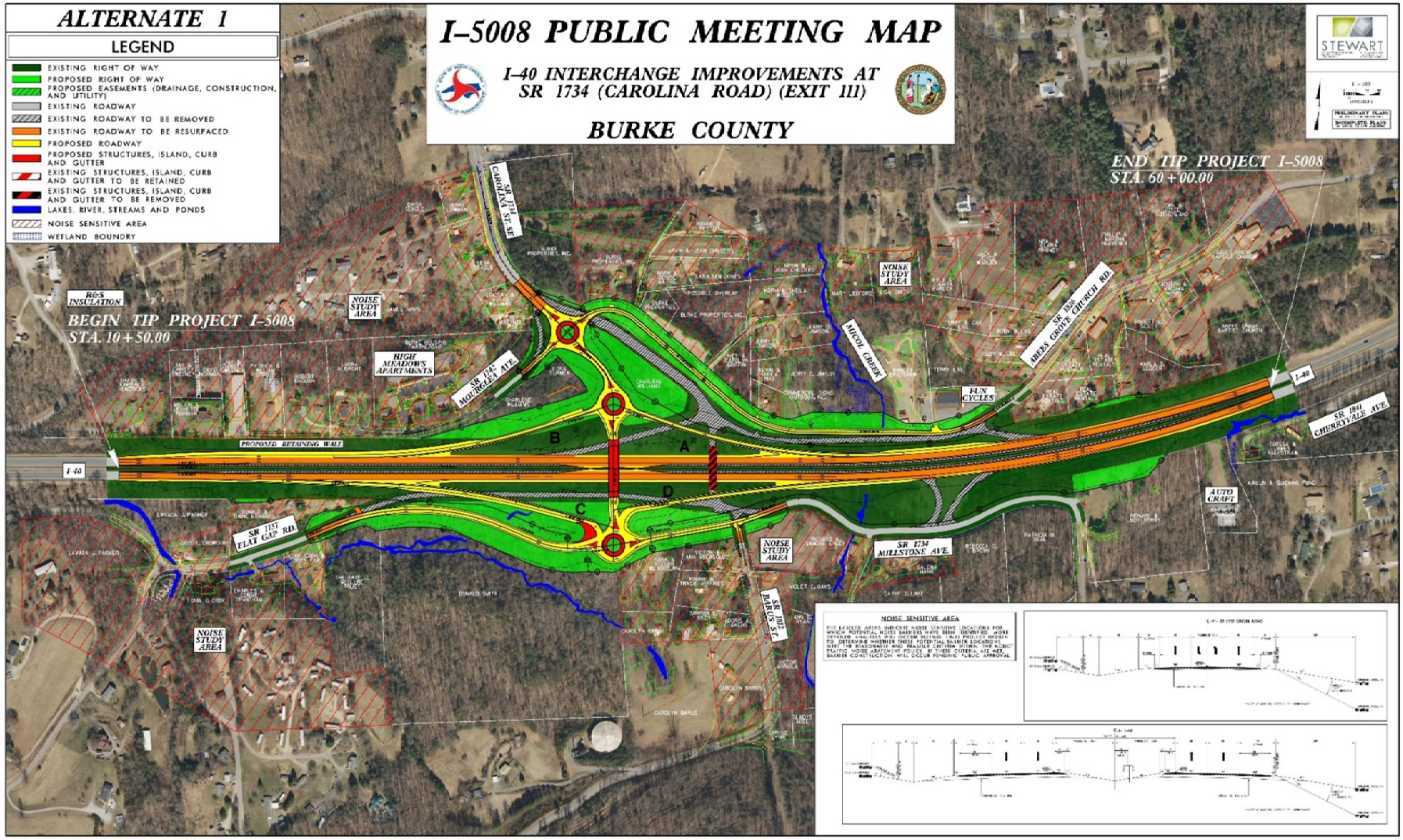
Final Plans Completed – July 2020

Project LET – October 2020

*Subject to change

STIP Project I-5008 Costs

	Alternate 1 Roundabout #1	Alternate 2 Roundabout #2	Alternate 3 Partial Cloverleaf
Right-of-Way & Utilities	$05.3 M	$05.3 M	$06.3 M
Construction	$22.8 M	$23.0 M	$20.1 M
TOTAL	**$28.1 M**	**$28.3 M**	**$26.4 M**


ALTERNATE 1
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NOISE SENSITIVE AREA
WETLAND BOUNDRY
I-5008 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1734 (CAROLINA ROAD) (EXIT 111)
BURKE COUNTY
BEGIN TIP PROJECT I-5008
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END TIP PROJECT I-5008
STA. 60+00.00
R&S INSULATION
NOISE STUDY AREA
HIGH MEADOWS APARTMENTS
SR 1734 CAROLINA ST. SE
SR 1734 MORGANTON AVE.
SR 1735 FLAT GAP RD.
SR 1734 MILLSTONE AVE.
SR 1005 ABEES GROVE CHURCH RD.
SR 1911 CHERRYDALE AVE.
MICOL CREEK
FUN CYCLES
AUTO CRAFT
PROPOSED RETAINING WALL
I-40
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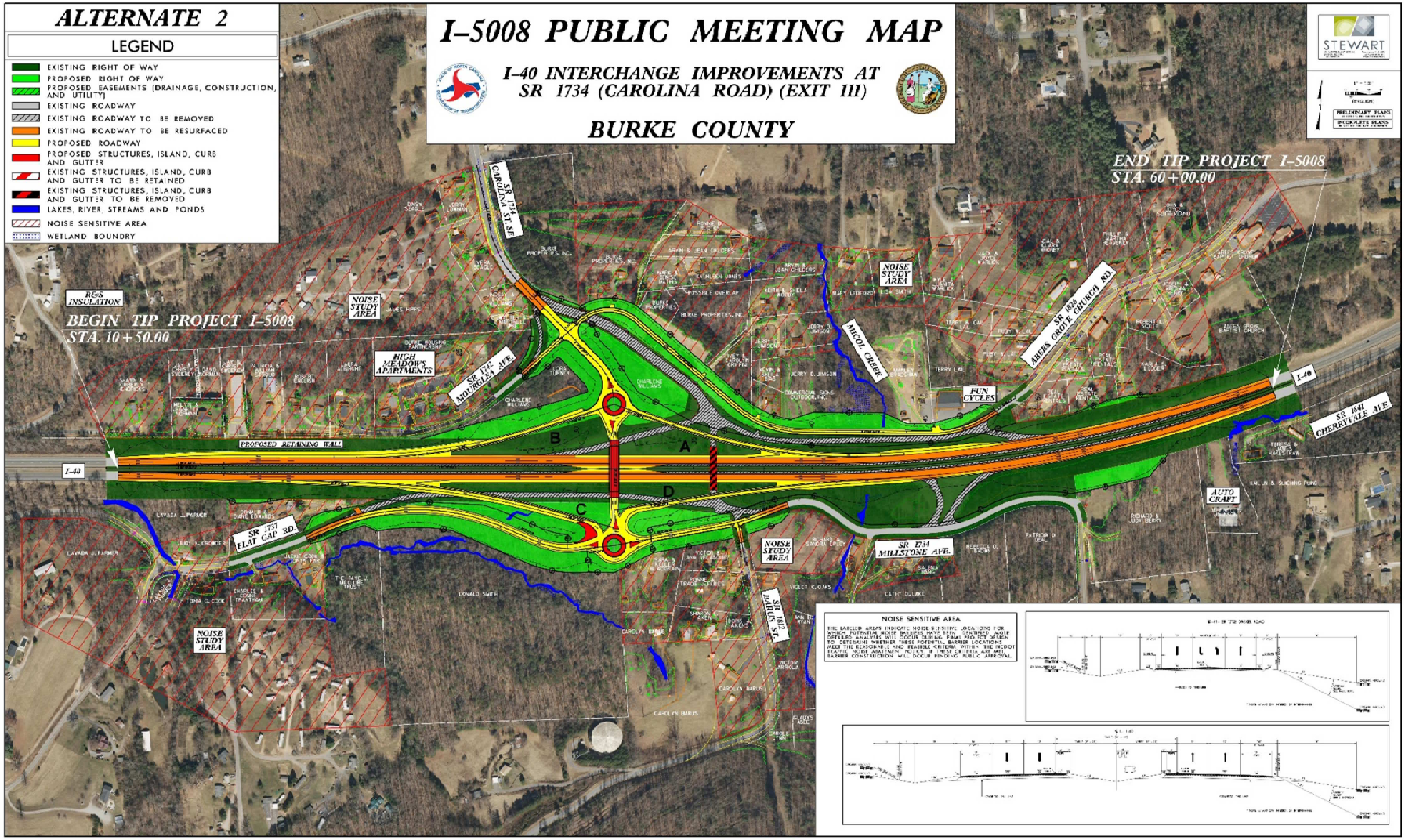
NOISE SENSITIVE AREA


ALTERNATE 2
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I-5008 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1734 (CAROLINA ROAD) (EXIT 111)
BURKE COUNTY
STEWART
PRELIMINARY PLANS
INCOMPLETE PLANS
BEGIN TIP PROJECT I-5008
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END TIP PROJECT I-5008
STA. 60+00.00
ROSS INSULATION
NOISE STUDY AREA
HIGH MEADOWS APARTMENTS
SR 1732 MOUNTAIN VIEW AVE.
SR 1733 CAROLINA ST. SE
SR 1635 ABBEYS GROVE CHURCH RD.
MECOL CREEK
FUN CYCLES
I-40
SR 1641 CHERRYDALE AVE.
PROPOSED RETAINING WALL
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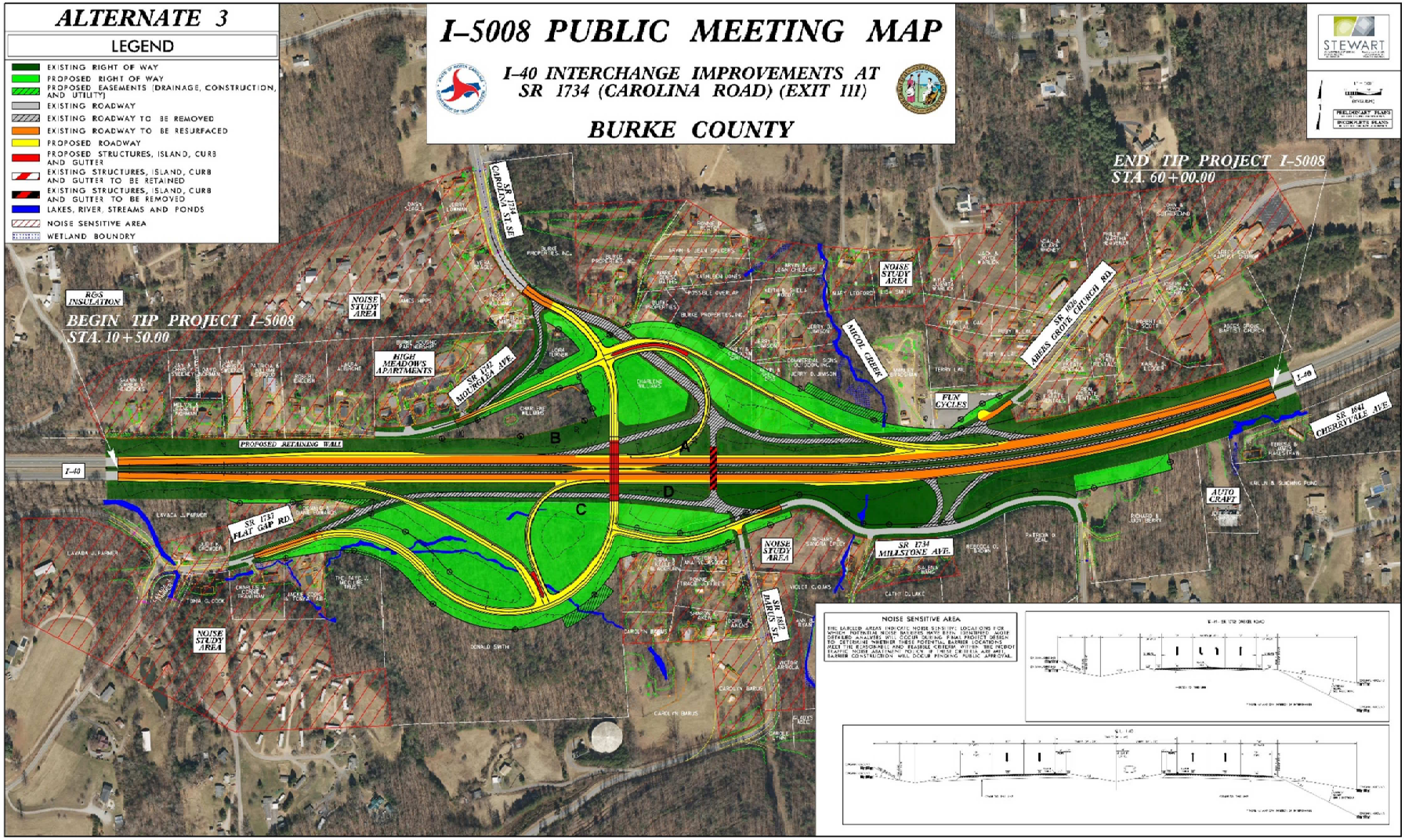
SR 1733 FLAT GAP RD.
SR 1734 MILLSTONE AVE.
SR 1631 DARIS ST.
AUTO CRAFT
NOISE SENSITIVE AREA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I-5008 PUBLIC MEETING MAP
I-40 INTERCHANGE IMPROVEMENTS AT SR 1734 (CAROLINA ROAD) (EXIT 111)
BURKE COUNTY
STEWART
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INCOMPLETE PLANS
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NOISE STUDY AREA
HIGH MEADOWS APARTMENTS
SR 1732 MOUNTAIN VIEW AVE.
SR 1731 CAROLINA ST. SE
SR 1731 FLAT GAP RD.
SR 1734 MILLSTONE AVE.
SR 1841 CHERRYDALE AVE.
SR 1838 ABBEYS GROVE CHURCH RD.
MECOL CREEK
PROPOSED RETAINING WALL
I-40
FUN CYCLES
AUTO CRAFT
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NOISE SENSITIVE AREA

Roundabout Quick Facts

- *What is a roundabout?* A roundabout is a circular intersection that requires entering traffic to: first, yield to traffic already moving in the intersection; and second, travel counterclockwise around the circle prior to exiting. A roundabout keeps traffic flowing on a counterclockwise movement, and prevents traffic from backing up and congesting by eliminating stop signs and traffic signals.
- *Why install a roundabout?* The NCDOT proposes roundabouts as part of intersection improvements to help address safety and congestions concerns. Most serious types of crashes are t-bone, left-turn, and head-on collisions that occur at traditional intersections. Roundabouts help reduce serious crashes by directing vehicular travel in the same direction at a lower speed.
- *What is the speed in roundabouts?* The typical speeds of vehicles maneuvering through roundabouts is less than 20 miles per hour. The lower speed allows for easier and safer turns in the roundabout. The modern roundabout is smaller, operates more efficiently, and have lower crash rates than a traffic circle. Traffic efficiency and safety is improved because vehicles are required to travel at a lower speed.
- *What is the size of a roundabout?* The size of a roundabout is determined by the number of vehicles, the size of the largest vehicle using the roundabout, the need to achieve appropriate speeds throughout the roundabout, and the layout of the existing intersection. The size of a single-lane roundabout is about one third the length of a football field.
- *Is a roundabout more expensive than a signalized intersection?* The initial construction cost of a roundabout is more expensive than a signalized intersection. However, maintenance and utility costs of a roundabout are less than a traffic signal over time.
- *How does a pedestrian navigate a roundabout?* A pedestrian should walk around the outside, not through the middle of a roundabout. Roundabouts usually have marked sidewalks or striped crossings to help pedestrian navigate.
- *How does a bicyclist navigate a roundabout?* A bicyclist should follow the same rules as a vehicle or dismount the bicycle and walk along the outside of a roundabout like a pedestrian.
- *How to drive a roundabout?* Drivers should yield to vehicles already in the roundabout, and to pedestrians and bicyclists on crosswalks. Drivers inside the roundabout have the right-of-way. Drivers should stay in the lane of travel and use turn signals when exiting roundabouts.

*Please see the **Roundabout Video Presentation** to learn more about roundabouts. The video is also available to be viewed at **https://ncdot.gov/projects/publicmeetings**.*

Next Steps

Following today's public meeting, NCDOT will consider all comments received about the functional design alternatives for STIP Projects I-5874, I-5875, and I-5008. Comment forms are provided in the next page. To ensure your suggestions or concerns are considered in the decision-making process, **all comment forms, written questions, and emails must be submitted to NCDOT no later than December 6, 2017.** Completed comment forms may be mailed to Doug Taylor to the addresses provided below.

After receipt of all comments, NCDOT will select the preferred alternatives for each of the projects. Your input will be considered with environmental, socio-economic, project cost, traffic forecast, and design criteria to determine alternatives to be carried forward.

For additional information, please contact:

Doug Taylor, PE
Consultant Project Manager Stewart
421 Fayetteville Street, Suite 400
Raleigh, NC 27601
dtaylor@stewartinc.com
(919) 866-4761

STIP Project Nos: I-5874, I-5875, and I-5008

COMMENT FORM

Public Meeting at Mt. Home Baptist Church, Morganton, NC
November 16, 2017

Name:_____

Address:_____

Email:_____

Please check project(s) that apply:

STIP Project I-5874 Interchange Improvements to Exit 100 (Jamestown Road/S.R. 1142)	☐
STIP Project I-5875 Interchange Improvements to Exit 107 (Drexel Road/S.R. 1712)	☐
STIP Project I-5008 Interchange Improvements to Exit 111 (Carolina Street SE/S.R. 1734)	☐

Comments:_____

Please submit completed comment forms to NCDOT staff or consultants today or mail before December 6, 2017.

Doug Taylor, PE
Consultant Project Manager STEWART
421 Fayetteville Street, Suite 400
Raleigh, NC 27601

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